SEQUENCE LISTING

<110>   ISHIGURO, Takahiko
        YASUKAWA, Kiyoshi

<120>   NOVEL GENOME ANALYZING METHOD

<130>   Q65441

<140>   US 09/904,557
<141>   2001-07-16

<150>   JP 2000-218737
<151>   2000-07-14

<150>   JP 2000-263248
<151>   2000-08-28

<150>   JP 2000-334935
<151>   2000-10-30

<160>   23

<170>   PatentIn version 3.0

<210>   1
<211>   53
<212>   DNA
<213>   Artificial

<220>
<223>   Primer 1F

<400>   1
aattctaata cgactcacta tagggagatg cttccaagat tctggtggga ata   53

<210>   2
<211>   20
<212>   DNA
<213>   Artificial

<220>
<223>   Primer 1R

<400>   2
agtaagctaa taatgatgat   20

<210>   3
<211>   35
<212>   DNA
<213>   Artificial

<220>
<223>   Primer 1S

<400>   3
aagcatacaa tgtggagaca atgcataatc atcca   35

<210>   4
<211>   53
<212>   DNA

<213> Artificial

<220>
<223> Primer 2F

<400> 4
aattctaata cgactcacta tagggagagc ttttgatttt aacgactttt aac   53

<210> 5
<211> 20
<212> DNA
<213> Artificial

<220>
<223> Primer 2R

<400> 5
tgtagtgttg actggagcag   20

<210> 6
<211> 35
<212> DNA
<213> Artificial

<220>
<223> Primer 2S

<400> 6
aaagcttgtc aattggaacc agtcgcaatt atgaa   35

<210> 7
<211> 53
<212> DNA
<213> Artificial

<220>
<223> Primer 3F

<400> 7
aattctaata cgactcacta tagggagaga agctgtcatc ggttactcag att   53

<210> 8
<211> 20
<212> DNA
<213> Artificial

<220>
<223> Primer 3R

<400> 8
cctcttctcg agagataccc   20

<210> 9
<211> 35
<212> DNA
<213> Artificial

<220>
<223> Primer 3S

<400> 9
gcttcagccg gaatttgtgc cgtttcatct tctgt   35

<210>   10
<211>   53
<212>   DNA
<213>   Artificial

<220>
<223>   Primer 4F

<400>   10
aattctaata cgactcacta tagggagatt ccggaagagc cccctcagca atg   53

<210>   11
<211>   21
<212>   DNA
<213>   Artificial

<220>
<223>   Primer 4R

<400>   11
ggactctctg ggaatactgg c   21

<210>   12
<211>   35
<212>   DNA
<213>   Artificial

<220>
<223>   Primer 4S

<400>   12
.ccctccggga ctgctaactg gcaggagaac ttctg   35

<210>   13
<211>   53
<212>   DNA
<213>   Artificial

<220>
<223>   Primer 5F

<400>   13
aattctaata cgactcacta tagggagaga gggagacagc tctttctaca tag   53

<210>   14
<211>   20
<212>   DNA
<213>   Artificial

<220>
<223>   Primer 5R

<400>   14
ggggtttctg gccacggcag   20

```
<210>  15
<211>  35
<212>  DNA
<213>  Artificial

<220>
<223>  Primer 5S

<400>  15
ccctccggga ctgctaactg gcaggagaac ttctg                        35


<210>  16
<211>  20
<212>  DNA
<213>  Artificial

<220>
<223>  Oligonucleotide probe YO-3

<400>  16
cttctttagc agcaatgctg                                          20


<210>  17
<211>  20
<212>  DNA
<213>  Artificial

<220>
<223>  Oligonucleotide probe AYO-3

<400>  17
cagcattgct gctaaagaag                                          20

<210>  18
<211>  180
<212>  DNA
<213>  Pichia pastoris

<220>
<223>  specific region 1

<400>  18
tggatgatta tgcattgtct ccacattgta tgcttccaag attctggtgg gaatactgct    60
gatagcctaa cgttcatgat caaaatttaa ctgttctaac ccctacttga cagcaatata   120
taaacagaag gaagctgccc tgtcttaaac cttttttttt atcatcatta ttagcttact   180


<210>  19
<211>  180
<212>  DNA
<213>  Pichia pastoris

<220>
<223>  specific region 2

<400>  19
ttcataattg cgactggttc caattgacag gcttttgatt ttaacgactt ttaacgacaa    60
cttgagaaga tcaaaaaaca actaattatt cgaaggatcc aaacgatgag atttccttca   120
atttttactg cagtttt att cgcagcatcc tccgcattag ctgctccagt caacactaca   180
```

<210> 20
<211> 180
<212> DNA
<213> Pichia pastoris

<220>
<223> specific region 3

<400> 20
acagaagatg aaacggcaca aattccggct gaagctgtca tcggttactc agatttagaa   60
ggggatttcg atgttgctgt tttgccattt tccaacagca caaataacgg gttattgttt   120
ataaatacta ctattgccag cattgctgct aaagaagaag gggtatctct cgagaagagg   180

<210> 21
<211> 180
<212> DNA
<213> Pichia pastoris

<220>
<223> specific region 4

<400> 21
gttccccccg aggagcccca gctctcctgc ttccggaaga gccccctcag caatgttgtt   60
tgtgagtggg gtcctcggag caccccatcc ctgacgacaa aggctgtgct cttggtgagg   120
aagtttcaga acagtccggc cgaagacttc caggagccgt gccagtattc ccaggagtcc   180

<210> 22
<211> 180
<212> DNA
<213> Pichia pastoris

<220>
<223> specific region 5

<400> 22
cagaagttct cctgccagtt agcagtcccg gagggagaca gctctttcta catagtgtcc   60
atgtgcgtcg ccagtagtgt cgggagcaag ttcagcaaaa ctcaaacctt tcagggttgt   120
ggaatcttgc agcctgatcc gcctgccaac atcacagtca ctgccgtggc cagaaacccc   180

<210> 23
<211> 900
<212> DNA
<213> Pichia pastoris

<220>
<223> 900 base pairs prepared from a G1 strain

<400> 23
tggatgatta tgcattgtct ccacattgta tgcttccaag attctggtgg gaatactgct   60
gatagcctaa cgttcatgat caaaatttaa ctgttctaac ccctacttga cagcaatata   120
taaacagaag gaagctgccc tgtcttaaac cttttttttt atcatcatta ttagcttact   180
ttcataattg cgactggttc caattgacag gcttttgatt ttaacgactt ttaacgacaa   240
cttgagaaga tcaaaaaaca actaattatt cgaaggatcc aaacgatgag atttccttca   300
attttttactg cagtttttatt cgcagcatcc tccgcattag ctgctccagt caacactaca   360
acagaagatg aaacggcaca aattccggct gaagctgtca tcggttactc agatttagaa   420
ggggatttcg atgttgctgt tttgccattt tccaacagca caaataacgg gttattgttt   480
ataaatacta ctattgccag cattgctgct aaagaagaag gggtatctct cgagaagagg   540
gttccccccg aggagcccca gctctcctgc ttccggaaga gccccctcag caatgttgtt   600
tgtgagtggg gtcctcggag caccccatcc ctgacgacaa aggctgtgct cttggtgagg   660
aagtttcaga acagtccggc cgaagacttc caggagccgt gccagtattc ccaggagtcc   720
cagaagttct cctgccagtt agcagtcccg gagggagaca gctctttcta catagtgtcc   780
(5/6)

```
atgtgcgtcg ccagtagtgt cgggagcaag ttcagcaaaa ctcaaacctt tcagggttgt          840
ggaatcttgc agcctgatcc gcctgccaac atcacagtca ctgccgtggc cagaaacccc          900
```